



Marathon Petroleum Corporation
19100 Ridgewood Parkway
San Antonio, TX 78259

210 626 6000
marathonpetroleum.com

January 29, 2019
[Sent Via Email]

Karlene Fine
Executive Director
North Dakota Industrial Commission

RE: Tesoro Refining & Marketing Company LLC Renewable Energy Contract

Dear Ms. Fine,

In conjunction with Contract No. R-033-042, section 2b (Semi-Annual Report), Marathon Petroleum Corporation kindly submits the following information in compliance with Section 5.11 of the North Dakota Industrial Commission – Renewable Energy Development Program Policies.

Summary of Project

This project will provide the capability to co-process up to 5% of soybean oil, (16,800 gallons/day), with conventional crude diesel feedstock in the Andeavor Dickinson Refinery's existing Diesel Hydrotreater Unit.

The Project scope includes:

- Modification of an existing 1.26-million-gallon storage tank for storing soybean oil feed – this includes, tank internal cleaning, installing nitrogen blanketing to prevent soybean oil oxidation and installation of emergency pressure/vacuum relief.
- Modification of an existing crude oil truck unloading station for soybean oil service – this includes piping modifications and the electrical heat tracing and insulation of pipe and equipment.
- Installation of 1,100 feet of new 4" pipe, electrically heat traced and insulated, to route the soybean oil from the truck unloading station to the storage tank. And electrically heat trace and insulate 1,240 feet of existing 4" pipe to enable transfer of the soybean oil from tankage to the Diesel Hydrotreater Unit.
- Installation of a new control valve station and flow meter for soybean oil feed control to the existing Diesel Hydrotreater Unit
- Replacement of the reaction catalysts in the existing Diesel Hydrotreater Unit Reactors.

Summary of Start-up Operations

In June 2018, Dickinson refinery started co-processing up to 5% soybean oil with ND Bakken crude. The conventional/renewable diesel blend was successfully marketed in North Dakota. With our success in obtaining sufficient renewable feedstock, blending of summer diesel continued through mid-October. During the winter

cycle, the refinery is producing P40 diesel without renewable content. Once the winter cycle finishes, the refinery plans to return to co-processing the conventional/renewable diesel blend in March 2019.